

(425) 420-9200 FAX 420-9210
(509) 924-9200 FAX 924-9290
(503) 906-9200 FAX 906-9210
(541) 383-9310 FAX 382-7588

Work Order #: P1G0344

TURNAROUND REQUEST in Business Days*

Organic & Inorganic Analyses

10	7	5	4	3	2	1	<1
----	---	---	---	---	---	---	----

STD.

Petroleum Hydrocarbon Analyses

5	4	3	2	1	< 1
---	---	---	---	---	-----

STD

Please Specify

OTHER

**Turnaround Requests less than standard may incur Rush Charges.*

[illegible]

CLIENT: Bristol		INVOICE TO: Bristol	
REPORT TO: Anne Kramm wetten			
ADDRESS: Anchuthat Island, AK			
PHONE: 907 770-0974	FAX: 770-0975	P.O. NUMBER: 21090	
PROJECT NAME: Anchuthat		REQUESTED ANALYSES	
PROJECT NUMBER: 21090			
SAMPLED BY: cam.			
CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	BRO/OTEX ANION/EA VOC 8260 B DRD 1620 AK 1024103 PAHs EPA 8270 sim ALBS EPA 8082 Metals Vols. Extract IL	
1. OIAM B6V01GW	7/10/01 1045	X	X
2. OIAM B6V01GW	7/10/01 1050	X	X
3. OIAM B6V02 GW	9/30/01		
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
13.			
14.			
15.			

RELINQUISHED BY: <i>Charlie Marshall</i>	DATE: 7/10/01	RECEIVED BY: <i>Stephen Wilson</i>	DATE: 7/10/01
PRINT NAME: <i>Charlie Marshall</i> FIRM: <i>Bristol</i>	TIME: 1134	PRINT NAME: <i>Stephen Wilson</i> FIRM: <i>NCA</i>	TIME: 1113
RELINQUISHED BY: <i>[Signature]</i> [TO DOX]	DATE: 7/10/01	RECEIVED BY: <i>Kimberly A Davis</i>	DATE: 7/11/01
PRINT NAME: <i>[Signature]</i> FIRM: <i>NCA</i>	TIME: 1145	PRINT NAME: <i>Kim Davis</i> FIRM: <i>NCA</i>	TIME: 1415
ADDITIONAL REMARKS: <i>Test as per SAP - Suite A</i>			TEMP: <i>2.9</i>
COC REV 3/99 <i>* Metals (ARSENIC, Barium, Cadmium, Chromium, LEAD, NICKEL, AND VANADIUM)</i>			PAGE OF



Seattle 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244
425.420.9210 fax 425.420.9210
Spokane East 1115 Montgomery, Suite B, Spokane, WA 99206-4776
509.924.9200 fax 509.924.9290
Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
503.906.9200 fax 503.906.9210
Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711
541.383.9310 fax 541.382.7588

8 October, 2001

Steve Johnson
Bristol Environmental & Engineering
2000 W. International Airport Rd. #C-1
Anchorage, AK 99502-1116

RE: Amchitka

Enclosed are **amended** results of analyses for samples received by the laboratory on 07/11/01 16:15. If you have any questions concerning this report, please feel free to contact me. These results supercede all previous results reported by the laboratory.

Sincerely,

Jerry Orlando
Project Manager/QA

Work Orders included in this report:

P1G0344

Bristol Environmental & Engineering
2000 W. International Airport Rd. #C-1
Anchorage, AK 99502-1116

Project: Amchitka
Project Number: 210901, PO# 21090
Project Manager: Steve Johnson


Amended Report
Issued: 10/08/01 14:17

ANALYTICAL REPORT FOR SAMPLES - Amended

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
01AMB6U01GW	P1G0344-01	Water	07/10/01 10:45	07/11/01 16:15
01AMB6U02GW	P1G0344-02	Water	07/10/01 10:50	07/11/01 16:15

North Creek Analytical - Portland

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Jerry Orlando, Project Manager/QA

North Creek Analytical, Inc.
Environmental Laboratory Network

Page 1 of 26

Bristol Environmental & Engineering
2000 W. International Airport Rd. #C-1
Anchorage, AK 99502-1116

Project: Amchitka
Project Number: 210901, PO# 21090
Project Manager: Steve Johnson


Amended Report
Issued: 10/08/01 14:17

Gasoline Range Organics (n-Hexane to <n-Decane) and BTEX per AK101 and EPA 8021B
North Creek Analytical - Portland

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
01AMB6U01GW (P1G0344-01) Water						Sampled: 07/10/01 Received: 07/11/01			
Gasoline Range Organics	ND	80.0	ug/l	1	AK101/8021B	07/12/01	07/12/01	1071160	
Benzene	ND	0.500	"	"	"	"	"	"	
Toluene	ND	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Xylenes (total)	ND	1.00	"	"	"	"	"	"	
Surr: 4-BFB (FID)	98.8 %	60-140							
Surr: 4-BFB (PID)	84.6 %	60-140							

North Creek Analytical - Portland

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Environmental Laboratory Network

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Bristol Environmental & Engineering
 2000 W. International Airport Rd. #C-1
 Anchorage, AK 99502-1116

Project: Amchitka
 Project Number: 210901, PO# 21090
 Project Manager: Steve Johnson

Amended Report
 Issued: 10/08/01 14:17


Diesel Range Organics (C10-C25) and Residual Range Organics (C25-C36) per AK102/103

North Creek Analytical - Portland

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
01AMB6U01GW (P1G0344-01) Water						Sampled: 07/10/01 Received: 07/11/01			
Diesel Range Organics	0.485	0.250	mg/l	1	AK102/103	07/17/01	07/18/01	1071347	
Residual Range Organics	ND	0.500	"	"	"	"	"	"	
<i>Surr: 1-Chlorooctadecane</i>	71.1 %	75-125							S-07
<i>Surr: Triacontane</i>	88.1 %	50-150							

North Creek Analytical - Portland

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 Jerry Orlando, Project Manager/QA

North Creek Analytical, Inc.
 Environmental Laboratory Network

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Bristol Environmental & Engineering
2000 W. International Airport Rd. #C-1
Anchorage, AK 99502-1116

Project: Amchitka
Project Number: 210901, PO# 21090
Project Manager: Steve Johnson

Amended Report
Issued: 10/08/01 14:17


Total Metals per EPA 6000/7000 Series Methods

North Creek Analytical - Portland

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
01AMB6U01GW (P1G0344-01) Water						Sampled: 07/10/01 Received: 07/11/01			
Arsenic	0.00103	0.00100	mg/l	1	EPA 6020	07/16/01	07/31/01	1071303	
Barium	0.00979	0.00200	"	"	"	"	"	"	
Cadmium	ND	0.00100	"	"	"	"	"	"	
Chromium	0.00117	0.00100	"	"	"	"	"	"	
Lead	0.00257	0.00100	"	"	"	"	"	"	
Nickel	0.00212	0.00200	"	"	"	"	"	"	
Vanadium	0.0195	0.00500	"	"	"	"	"	"	

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Jerry Orlando, Project Manager/QA

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Environmental Laboratory Network

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Bristol Environmental & Engineering
2000 W. International Airport Rd. #C-1
Anchorage, AK 99502-1116

Project: Amchitka
Project Number: 210901, PO# 21090
Project Manager: Steve Johnson

Amended Report
Issued: 10/08/01 14:17

Polychlorinated Biphenyls per EPA Method 8082


North Creek Analytical - Portland

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
01AMB6U01GW (P1G0344-01) Water						Sampled: 07/10/01 Received: 07/11/01			
Aroclor 1016	ND	0.500	ug/l	1	EPA 8082	07/17/01	07/24/01	1071341	
Aroclor 1221	ND	1.00	"	"	"	"	"	"	
Aroclor 1232	ND	0.500	"	"	"	"	"	"	
Aroclor 1242	ND	0.500	"	"	"	"	"	"	
Aroclor 1248	ND	0.500	"	"	"	"	"	"	
Aroclor 1254	ND	0.500	"	"	"	"	"	"	
Aroclor 1260	ND	0.500	"	"	"	"	"	"	
Surr: 2,4,5,6-Tetrachloro-m-xylene	75.6 %	44-119							
Surr: Decachlorobiphenyl	51.5 %	54-128							

S-07

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Bristol Environmental & Engineering
 2000 W. International Airport Rd. #C-1
 Anchorage, AK 99502-1116

Project: Amchitka
 Project Number: 210901, PO# 21090
 Project Manager: Steve Johnson

Amended Report
 Issued: 10/08/01 14:17

Volatile Organic Compounds per EPA Method 8260B

North Creek Analytical - Portland

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
01AMB6U01GW (P1G0344-01) Water						Sampled: 07/10/01 Received: 07/11/01			
Acetone	ND	25.0	ug/l	1	EPA 8260B	07/18/01	07/19/01	1071384	
Benzene	ND	1.00	"	"	"	"	"	"	
Bromobenzene	ND	1.00	"	"	"	"	"	"	
Bromochloromethane	ND	1.00	"	"	"	"	"	"	
Bromodichloromethane	ND	1.00	"	"	"	"	"	"	
Bromoform	ND	1.00	"	"	"	"	"	"	
Bromomethane	ND	5.00	"	"	"	"	"	"	
2-Butanone	ND	10.0	"	"	"	"	"	"	
n-Butylbenzene	ND	5.00	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.00	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.00	"	"	"	"	"	"	
Carbon disulfide	ND	10.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	1.00	"	"	"	"	"	"	
Chlorobenzene	ND	1.00	"	"	"	"	"	"	
Chloroethane	ND	1.00	"	"	"	"	"	"	
Chloroform	ND	1.00	"	"	"	"	"	"	
Chloromethane	ND	5.00	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.00	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.00	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	5.00	"	"	"	"	"	"	
Dibromochloromethane	ND	1.00	"	"	"	"	"	"	
1,2-Dibromoethane	ND	1.00	"	"	"	"	"	"	
Dibromomethane	ND	1.00	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.00	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.00	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.00	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	5.00	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.00	"	"	"	"	"	"	
1,2-Dichloroethane	ND	1.00	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.00	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.00	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.00	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.00	"	"	"	"	"	"	
1,3-Dichloropropane	ND	1.00	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.00	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.00	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	1.00	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	1.00	"	"	"	"	"	"	
Ethylbenzene	ND	1.00	"	"	"	"	"	"	

North Creek Analytical - Portland

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Jerry Orlando, Project Manager/QA

North Creek Analytical, Inc.
Environmental Laboratory Network

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Bristol Environmental & Engineering
 2000 W. International Airport Rd. #C-1
 Anchorage, AK 99502-1116

Project: Amchitka
 Project Number: 210901, PO# 21090
 Project Manager: Steve Johnson

Amended Report
 Issued: 10/08/01 14:17


Volatile Organic Compounds per EPA Method 8260B

North Creek Analytical - Portland

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
01AMB6U01GW (PIG0344-01) Water						Sampled: 07/10/01 Received: 07/11/01			
Hexachlorobutadiene	ND	2.00	ug/l	1	EPA 8260B	07/18/01	07/19/01	1071384	
2-Hexanone	ND	10.0	"	"	"	"	"	"	
Isopropylbenzene	ND	2.00	"	"	"	"	"	"	
p-Isopropyltoluene	ND	2.00	"	"	"	"	"	"	
4-Methyl-2-pentanone	ND	5.00	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.00	"	"	"	"	"	"	
Methylene chloride	ND	5.00	"	"	"	"	"	"	
Naphthalene	ND	2.00	"	"	"	"	"	"	
n-Propylbenzene	ND	1.00	"	"	"	"	"	"	
Styrene	ND	1.00	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.00	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.00	"	"	"	"	"	"	
Tetrachloroethene	ND	1.00	"	"	"	"	"	"	
Toluene	ND	1.00	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.00	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.00	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.00	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.00	"	"	"	"	"	"	
Trichloroethene	ND	1.00	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.00	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.00	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.00	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.00	"	"	"	"	"	"	
Vinyl chloride	ND	1.00	"	"	"	"	"	"	
o-Xylene	ND	1.00	"	"	"	"	"	"	
m,p-Xylene	ND	2.00	"	"	"	"	"	"	
Surr: 4-BFB	91.0 %	75-125							
Surr: 1,2-DCA-d4	101 %	75-125							
Surr: Dibromofluoromethane	98.5 %	75-125							
Surr: Toluene-d8	91.5 %	75-125							

North Creek Analytical - Portland

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 Jerry Orlando, Project Manager/QA

North Creek Analytical, Inc.
Environmental Laboratory Network

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Bristol Environmental & Engineering
2000 W. International Airport Rd. #C-1
Anchorage, AK 99502-1116

Project: Amchitka
Project Number: 210901, PO# 21090
Project Manager: Steve Johnson

Amended Report
Issued: 10/08/01 14:17


Volatile Organic Compounds per EPA Method 8260B

North Creek Analytical - Portland

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
01AMB6U02GW (P1G0344-02) Water						Sampled: 07/10/01 Received: 07/11/01		I-02	
Acetone	ND	25.0	ug/l	1	EPA 8260B	07/26/01	07/27/01	1071758	
Benzene	ND	1.00	"	"	"	"	"	"	
Bromobenzene	ND	1.00	"	"	"	"	"	"	
Bromochloromethane	ND	1.00	"	"	"	"	"	"	
Bromodichloromethane	ND	1.00	"	"	"	"	"	"	
Bromoform	ND	1.00	"	"	"	"	"	"	
Bromomethane	ND	5.00	"	"	"	"	"	"	
2-Butanone	ND	10.0	"	"	"	"	"	"	
n-Butylbenzene	ND	5.00	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.00	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.00	"	"	"	"	"	"	
Carbon disulfide	ND	10.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	1.00	"	"	"	"	"	"	
Chlorobenzene	ND	1.00	"	"	"	"	"	"	
Chloroethane	ND	1.00	"	"	"	"	"	"	
Chloroform	ND	1.00	"	"	"	"	"	"	
Chloromethane	ND	5.00	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.00	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.00	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	5.00	"	"	"	"	"	"	
Dibromochloromethane	ND	1.00	"	"	"	"	"	"	
1,2-Dibromoethane	ND	1.00	"	"	"	"	"	"	
Dibromomethane	ND	1.00	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.00	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.00	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.00	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	5.00	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.00	"	"	"	"	"	"	
1,2-Dichloroethane	ND	1.00	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.00	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.00	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.00	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.00	"	"	"	"	"	"	
1,3-Dichloropropane	ND	1.00	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.00	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.00	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	1.00	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	1.00	"	"	"	"	"	"	
Ethylbenzene	ND	1.00	"	"	"	"	"	"	

North Creek Analytical - Portland

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Jerry Orlando, Project Manager/QA

North Creek Analytical, Inc.
Environmental Laboratory Network

Page 8 of 26

Bristol Environmental & Engineering
2000 W. International Airport Rd. #C-1
Anchorage, AK 99502-1116

Project: Amchitka
Project Number: 210901, PO# 21090
Project Manager: Steve Johnson

Amended Report
Issued: 10/08/01 14:17

Volatile Organic Compounds per EPA Method 8260B
North Creek Analytical - Portland

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
01AMB6U02GW (P1G0344-02) Water						Sampled: 07/10/01 Received: 07/11/01		I-02	
Hexachlorobutadiene	ND	2.00	ug/l	1	EPA 8260B	07/26/01	07/27/01	1071758	
2-Hexanone	ND	10.0	"	"	"	"	"	"	
Isopropylbenzene	ND	2.00	"	"	"	"	"	"	
p-Isopropyltoluene	ND	2.00	"	"	"	"	"	"	
4-Methyl-2-pentanone	ND	5.00	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.00	"	"	"	"	"	"	
Methylene chloride	11.0	5.00	"	"	"	"	"	"	
Naphthalene	ND	2.00	"	"	"	"	"	"	
n-Propylbenzene	ND	1.00	"	"	"	"	"	"	
Styrene	ND	1.00	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.00	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.00	"	"	"	"	"	"	
Tetrachloroethene	ND	1.00	"	"	"	"	"	"	
Toluene	ND	1.00	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.00	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.00	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.00	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.00	"	"	"	"	"	"	
Trichloroethene	ND	1.00	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.00	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.00	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.00	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.00	"	"	"	"	"	"	
Vinyl chloride	ND	1.00	"	"	"	"	"	"	
o-Xylene	ND	1.00	"	"	"	"	"	"	
m,p-Xylene	ND	2.00	"	"	"	"	"	"	
Surr: 4-BFB	106 %	75-125							
Surr: 1,2-DCA-d4	106 %	75-125							
Surr: Dibromofluoromethane	101 %	75-125							
Surr: Toluene-d8	100 %	75-125							

North Creek Analytical - Portland

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Bristol Environmental & Engineering
2000 W. International Airport Rd. #C-1
Anchorage, AK 99502-1116

Project: Amchitka
Project Number: 210901, PO# 21090
Project Manager: Steve Johnson

Amended Report
Issued: 10/08/01 14:17


Polynuclear Aromatic Compounds per EPA 8270M-SIM

North Creek Analytical - Portland

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
01AMB6U01GW (P1G0344-01) Water						Sampled: 07/10/01 Received: 07/11/01			
Acenaphthene	ND	0.100	ug/l	1	EPA 8270m	07/17/01	07/18/01	1071339	
Acenaphthylene	ND	0.100	"	"	"	"	"	"	
Anthracene	ND	0.100	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.100	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.100	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.100	"	"	"	"	"	"	
Benzo (ghi) perylene	ND	0.100	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.100	"	"	"	"	"	"	
Chrysene	ND	0.100	"	"	"	"	"	"	
Dibenzo (a,h) anthracene	ND	0.200	"	"	"	"	"	"	
Fluoranthene	ND	0.100	"	"	"	"	"	"	
Fluorene	ND	0.100	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.100	"	"	"	"	"	"	
Naphthalene	ND	0.100	"	"	"	"	"	"	
Phenanthrene	ND	0.100	"	"	"	"	"	"	
Pyrene	ND	0.100	"	"	"	"	"	"	
Surr: Fluorene-d10	77.5 %	25-105							
Surr: Pyrene-d10	113 %	30-130							
Surr: Benzo (a) pyrene-d12	87.3 %	22-120							

North Creek Analytical - Portland

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Bristol Environmental & Engineering
 2000 W. International Airport Rd. #C-1
 Anchorage, AK 99502-1116

Project: Amchitka
 Project Number: 210901, PO# 21090
 Project Manager: Steve Johnson

Amended Report
 Issued: 10/08/01 14:17

Gasoline Range Organics (n-Hexane to <n-Decane) and BTEX per AK101 and EPA 8021B - Quality Control

North Creek Analytical - Portland

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1071160 - EPA 5030B

Blank (1071160-BLK1)

Prepared & Analyzed: 07/12/01

Gasoline Range Organics	ND	80.0	ug/l							
Benzene	ND	0.500	"							
Toluene	ND	0.500	"							
Ethylbenzene	ND	0.500	"							
Xylenes (total)	ND	1.00	"							
Surr: 4-BFB (FID)	54.3		"	50.0		109	60-140			
Surr: 4-BFB (PID)	46.7		"	50.0		93.4	60-140			

LCS (1071160-BS1)

Prepared & Analyzed: 07/12/01

Gasoline Range Organics	1380	80.0	ug/l	1250		110	70-120			
Surr: 4-BFB (FID)	65.0		"	50.0		130	60-140			

LCS (1071160-BS2)

Prepared & Analyzed: 07/12/01

Benzene	15.3	0.500	ug/l	20.0		76.5	75-125			
Toluene	15.9	0.500	"	20.0		79.5	75-125			
Ethylbenzene	16.5	0.500	"	20.0		82.5	75-125			
Xylenes (total)	48.2	1.00	"	60.0		80.3	75-125			
Surr: 4-BFB (PID)	43.1		"	50.0		86.2	60-140			

LCS Dup (1071160-BSD1)

Prepared & Analyzed: 07/12/01

Gasoline Range Organics	1300	80.0	ug/l	1250		104	70-120	5.97	20	
Surr: 4-BFB (FID)	62.7		"	50.0		125	60-140			

Duplicate (1071160-DUP1)

Source: P1G0356-01

Prepared & Analyzed: 07/12/01

Gasoline Range Organics	ND	80.0	ug/l	ND					20	
Surr: 4-BFB (FID)	54.4		"	50.0		109	60-140			

Matrix Spike (1071160-MS1)


Source: P1G0356-02

Prepared & Analyzed: 07/12/01

Benzene	17.0	0.500	ug/l	20.0	ND	85.0	75-125			
Toluene	17.4	0.500	"	20.0	ND	87.0	75-125			
Ethylbenzene	18.0	0.500	"	20.0	ND	90.0	75-125			
Xylenes (total)	52.4	1.00	"	60.0	ND	87.3	75-125			
Surr: 4-BFB (PID)	46.8		"	50.0		93.6	60-140			

North Creek Analytical - Portland

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Bristol Environmental & Engineering
2000 W. International Airport Rd. #C-1
Anchorage, AK 99502-1116

Project: Amchitka
Project Number: 210901, PO# 21090
Project Manager: Steve Johnson

Amended Report
Issued: 10/08/01 14:17

Gasoline Range Organics (n-Hexane to <n-Decane) and BTEX per AK101 and EPA 8021B - Quality Control

North Creek Analytical - Portland

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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Batch 1071160 - EPA 5030B

Matrix Spike Dup (1071160-MSD1)


Source: P1G0356-02

Prepared & Analyzed: 07/12/01

Benzene	15.9	0.500	ug/l	20.0	ND	79.5	75-125	6.69	20
Toluene	16.2	0.500	"	20.0	ND	81.0	75-125	7.14	20
Ethylbenzene	16.6	0.500	"	20.0	ND	83.0	75-125	8.09	20
Xylenes (total)	48.2	1.00	"	60.0	ND	80.3	75-125	8.35	20
Surr: 4-BFB (PID)	42.5		"	50.0		85.0	60-140		

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2000 W. International Airport Rd. #C-1
Anchorage, AK 99502-1116

Project: Amchitka
Project Number: 210901, PO# 21090
Project Manager: Steve Johnson

Amended Report
Issued: 10/08/01 14:17

Diesel Range Organics (C10-C25) and Residual Range Organics (C25-C36) per AK102/103 - Quality Control

North Creek Analytical - Portland

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1071347 - EPA 3510 Fuels

Blank (1071347-BLK1)

Prepared: 07/17/01 Analyzed: 07/18/01

Diesel Range Organics	ND	0.250	mg/l							
Residual Range Organics	ND	0.500	"							
Surr: 1-Chlorooctadecane	0.0740		"	0.0960		77.1	75-125			
Surr: Triacotane	0.104		"	0.125		83.2	50-150			

LCS (1071347-BS1)

Prepared: 07/17/01 Analyzed: 07/18/01

Diesel Range Organics	2.39	0.250	mg/l	2.58		92.6	60-130			
Residual Range Organics	1.21	0.500	"	1.58		76.6	60-130			
Surr: 1-Chlorooctadecane	0.0752		"	0.0960		78.3	75-125			
Surr: Triacotane	0.119		"	0.125		95.2	50-150			


LCS Dup (1071347-BSD1)

Prepared: 07/17/01 Analyzed: 07/18/01

Diesel Range Organics	2.43	0.250	mg/l	2.58		94.2	60-130	1.66	20	
Residual Range Organics	1.20	0.500	"	1.58		75.9	60-130	0.830	20	
Surr: 1-Chlorooctadecane	0.0774		"	0.0960		80.6	75-125			
Surr: Triacotane	0.132		"	0.125		106	50-150			

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Anchorage, AK 99502-1116

Project: Amchitka
Project Number: 210901, PO# 21090
Project Manager: Steve Johnson

Amended Report
Issued: 10/08/01 14:17

Total Metals per EPA 6000/7000 Series Methods - Quality Control

North Creek Analytical - Portland

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1071303 - EPA 200/3005

Blank (1071303-BLK1)

Prepared: 07/16/01 Analyzed: 07/31/01

Arsenic	ND	0.00100	mg/l
Barium	ND	0.00200	"
Cadmium	ND	0.00100	"
Chromium	ND	0.00100	"
Lead	ND	0.00100	"
Nickel	ND	0.00200	"
Vanadium	ND	0.00500	"

LCS (1071303-BS1)

Prepared: 07/16/01 Analyzed: 07/31/01

Arsenic	0.106	0.00100	mg/l	0.100	106	80-120
Barium	0.101	0.00200	"	0.100	101	80-120
Cadmium	0.104	0.00100	"	0.100	104	80-120
Chromium	0.0987	0.00100	"	0.100	98.7	80-120
Lead	0.102	0.00100	"	0.100	102	80-120
Nickel	0.0991	0.00200	"	0.100	99.1	80-120
Vanadium	0.0968	0.00500	"	0.100	96.8	80-120

Duplicate (1071303-DUP1)

Source: P1G0268-01

Prepared: 07/16/01 Analyzed: 08/02/01

Arsenic	ND	0.0100	mg/l	ND		89.8	20	Q-06,R-03
Barium	0.0348	0.0200	"	0.0332		4.71	20	R-03
Cadmium	ND	0.0100	"	ND			20	R-03
Chromium	ND	0.0100	"	ND		23.1	20	Q-06,R-03
Lead	ND	0.0100	"	ND			20	R-03
Nickel	ND	0.0200	"	ND		0.00	20	R-03
Vanadium	ND	0.0500	"	ND		52.6	20	Q-06,R-03

Matrix Spike (1071303-MS1)


Source: P1G0268-01

Prepared: 07/16/01 Analyzed: 08/02/01

Arsenic	0.110	0.0100	mg/l	0.100	ND	107	75-125	R-03
Barium	0.139	0.0200	"	0.100	0.0332	106	75-125	R-03
Cadmium	0.0980	0.0100	"	0.100	ND	98.0	75-125	R-03
Chromium	0.115	0.0100	"	0.100	ND	113	75-125	R-03
Lead	0.0975	0.0100	"	0.100	ND	97.5	75-125	R-03
Nickel	0.107	0.0200	"	0.100	ND	105	75-125	R-03
Vanadium	0.114	0.0500	"	0.100	ND	113	75-125	R-03

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Project: Amchitka
Project Number: 210901, PO# 21090
Project Manager: Steve Johnson

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Issued: 10/08/01 14:17

Total Metals per EPA 6000/7000 Series Methods - Quality Control

North Creek Analytical - Portland

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
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Batch 1071303 - EPA 200/3005

Matrix Spike (1071303-MS2)

Source: P1G0427-01

Prepared: 07/16/01 Analyzed: 07/31/01

Arsenic	0.128	0.0148	mg/l	0.100	ND	125	75-125	
Barium	0.118	0.00200	"	0.100	0.0136	104	75-125	
Cadmium	0.100	0.00100	"	0.100	ND	100	75-125	
Chromium	0.191	0.00100	"	0.100	0.0703	121	75-125	
Lead	0.0948	0.00100	"	0.100	ND	94.0	75-125	
Nickel	0.131	0.00200	"	0.100	0.0192	112	75-125	
Vanadium	0.814	0.00500	"	0.100	0.722	92.0	75-125	

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Project: Amchitka
Project Number: 210901, PO# 21090
Project Manager: Steve Johnson

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Issued: 10/08/01 14:17

Polychlorinated Biphenyls per EPA Method 8082 - Quality Control

North Creek Analytical - Portland

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1071341 - EPA 3510/600 Series

Blank (1071341-BLK1)

Prepared: 07/17/01 Analyzed: 07/24/01

Aroclor 1016	ND	0.500	ug/l							
Aroclor 1221	ND	1.00	"							
Aroclor 1232	ND	0.500	"							
Aroclor 1242	ND	0.500	"							
Aroclor 1248	ND	0.500	"							
Aroclor 1254	ND	0.500	"							
Aroclor 1260	ND	0.500	"							
Surr: 2,4,5,6-Tetrachloro-m-xylene	0.597		"	0.500		119	44-119			
Surr: Decachlorobiphenyl	0.623		"	0.500		125	54-128			

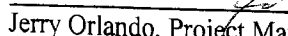
LCS (1071341-BS2)

Prepared: 07/17/01 Analyzed: 07/24/01

Aroclor 1016	4.82	0.500	ug/l	5.00		96.4	45-145			
Aroclor 1260	5.10	0.500	"	5.00		102	47-155			
Surr: 2,4,5,6-Tetrachloro-m-xylene	0.356		"	0.500		71.2	44-119			
Surr: Decachlorobiphenyl	0.461		"	0.500		92.2	54-128			

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Bristol Environmental & Engineering
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 Anchorage, AK 99502-1116

Project: Amchitka
 Project Number: 210901, PO# 21090
 Project Manager: Steve Johnson

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 Issued: 10/08/01 14:17

Volatile Organic Compounds per EPA Method 8260B - Quality Control

North Creek Analytical - Portland

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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Batch 1071384 - EPA 5030B


Blank (1071384-BLK1)

Prepared: 07/18/01 Analyzed: 07/19/01

Acetone	ND	25.0	ug/l
Benzene	ND	1.00	"
Bromobenzene	ND	1.00	"
Bromochloromethane	ND	1.00	"
Bromodichloromethane	ND	1.00	"
Bromoform	ND	1.00	"
Bromomethane	ND	5.00	"
2-Butanone	ND	10.0	"
n-Butylbenzene	ND	5.00	"
sec-Butylbenzene	ND	1.00	"
tert-Butylbenzene	ND	1.00	"
Carbon disulfide	ND	10.0	"
Carbon tetrachloride	ND	1.00	"
Chlorobenzene	ND	1.00	"
Chloroethane	ND	1.00	"
Chloroform	ND	1.00	"
Chloromethane	ND	5.00	"
2-Chlorotoluene	ND	1.00	"
4-Chlorotoluene	ND	1.00	"
1,2-Dibromo-3-chloropropane	ND	5.00	"
Dibromochloromethane	ND	1.00	"
1,2-Dibromoethane	ND	1.00	"
Dibromomethane	ND	1.00	"
1,2-Dichlorobenzene	ND	1.00	"
1,3-Dichlorobenzene	ND	1.00	"
1,4-Dichlorobenzene	ND	1.00	"
Dichlorodifluoromethane	ND	5.00	"
1,1-Dichloroethane	ND	1.00	"
1,2-Dichloroethane	ND	1.00	"
1,1-Dichloroethene	ND	1.00	"
cis-1,2-Dichloroethene	ND	1.00	"
trans-1,2-Dichloroethene	ND	1.00	"
1,2-Dichloropropane	ND	1.00	"
1,3-Dichloropropane	ND	1.00	"
2,2-Dichloropropane	ND	1.00	"
1,1-Dichloropropene	ND	1.00	"

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Project: Amchitka
Project Number: 210901, PO# 21090
Project Manager: Steve Johnson

Amended Report
Issued: 10/08/01 14:17

Volatile Organic Compounds per EPA Method 8260B - Quality Control

North Creek Analytical - Portland

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1071384 - EPA 5030B


Blank (1071384-BLK1)

Prepared: 07/18/01 Analyzed: 07/19/01

cis-1,3-Dichloropropene	ND	1.00	ug/l							
trans-1,3-Dichloropropene	ND	1.00	"							
Ethylbenzene	ND	1.00	"							
Hexachlorobutadiene	ND	2.00	"							
2-Hexanone	ND	10.0	"							
Isopropylbenzene	ND	2.00	"							
p-Isopropyltoluene	ND	2.00	"							
4-Methyl-2-pentanone	ND	5.00	"							
Methyl tert-butyl ether	ND	1.00	"							
Methylene chloride	ND	5.00	"							
Naphthalene	ND	2.00	"							
n-Propylbenzene	ND	1.00	"							
Styrene	ND	1.00	"							
1,1,1,2-Tetrachloroethane	ND	1.00	"							
1,1,2,2-Tetrachloroethane	ND	1.00	"							
Tetrachloroethene	ND	1.00	"							
Toluene	ND	1.00	"							
1,2,3-Trichlorobenzene	ND	1.00	"							
1,2,4-Trichlorobenzene	ND	1.00	"							
1,1,1-Trichloroethane	ND	1.00	"							
1,1,2-Trichloroethane	ND	1.00	"							
Trichloroethene	ND	1.00	"							
Trichlorofluoromethane	ND	1.00	"							
1,2,3-Trichloropropane	ND	1.00	"							
1,2,4-Trimethylbenzene	ND	1.00	"							
1,3,5-Trimethylbenzene	ND	1.00	"							
Vinyl chloride	ND	1.00	"							
o-Xylene	ND	1.00	"							
m,p-Xylene	ND	2.00	"							
Surr: 4-BFB	18.6		"	20.0		93.0	75-125			
Surr: 1,2-DCA-d4	18.7		"	20.0		93.5	75-125			
Surr: Dibromofluoromethane	18.8		"	20.0		94.0	75-125			
Surr: Toluene-d8	18.7		"	20.0		93.5	75-125			

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Project: Amchitka
Project Number: 210901, PO# 21090
Project Manager: Steve Johnson

Amended Report
Issued: 10/08/01 14:17

Volatile Organic Compounds per EPA Method 8260B - Quality Control

North Creek Analytical - Portland

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1071384 - EPA 5030B

LCS (1071384-BS1)

Prepared: 07/18/01 Analyzed: 07/19/01

Benzene	21.2	1.00	ug/l	20.0		106	80-125			
Chlorobenzene	20.4	1.00	"	20.0		102	80-125			
1,1-Dichloroethene	18.6	1.00	"	20.0		93.0	70-135			
Toluene	21.5	1.00	"	20.0		108	80-125			
Trichloroethene	23.3	1.00	"	20.0		116	70-130			
Surr: 4-BFB	21.9		"	20.0		110	75-125			
Surr: 1,2-DCA-d4	18.8		"	20.0		94.0	75-125			
Surr: Dibromofluoromethane	18.6		"	20.0		93.0	75-125			
Surr: Toluene-d8	19.5		"	20.0		97.5	75-125			

LCS Dup (1071384-BSD1)

Prepared: 07/18/01 Analyzed: 07/19/01

Benzene	21.8	1.00	ug/l	20.0		109	80-125	2.79	25	
Chlorobenzene	21.0	1.00	"	20.0		105	80-125	2.90	25	
1,1-Dichloroethene	19.5	1.00	"	20.0		97.5	70-135	4.72	25	
Toluene	22.2	1.00	"	20.0		111	80-125	3.20	25	
Trichloroethene	24.0	1.00	"	20.0		120	70-130	2.96	25	
Surr: 4-BFB	21.6		"	20.0		108	75-125			
Surr: 1,2-DCA-d4	18.6		"	20.0		93.0	75-125			
Surr: Dibromofluoromethane	18.6		"	20.0		93.0	75-125			
Surr: Toluene-d8	19.3		"	20.0		96.5	75-125			

Matrix Spike (1071384-MS1)


Source: P1G0448-07

Prepared: 07/18/01 Analyzed: 07/19/01

Benzene	20.6	1.00	ug/l	20.0	ND	103	80-125			
Chlorobenzene	19.4	1.00	"	20.0	ND	97.0	80-125			
1,1-Dichloroethene	19.3	1.00	"	20.0	ND	96.5	70-135			
Toluene	20.6	1.00	"	20.0	ND	103	80-125			
Trichloroethene	18.9	1.00	"	20.0	ND	94.5	70-130			
Surr: 4-BFB	21.1		"	20.0		106	75-125			
Surr: 1,2-DCA-d4	18.4		"	20.0		92.0	75-125			
Surr: Dibromofluoromethane	18.5		"	20.0		92.5	75-125			
Surr: Toluene-d8	19.2		"	20.0		96.0	75-125			

North Creek Analytical - Portland

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Environmental Laboratory Network

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Bristol Environmental & Engineering
2000 W. International Airport Rd. #C-1
Anchorage, AK 99502-1116

Project: Amchitka
Project Number: 210901, PO# 21090
Project Manager: Steve Johnson

Amended Report
Issued: 10/08/01 14:17

Volatile Organic Compounds per EPA Method 8260B - Quality Control

North Creek Analytical - Portland

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1071384 - EPA 5030B

Matrix Spike Dup (1071384-MSD1)

Source: P1G0448-07

Prepared: 07/18/01 Analyzed: 07/19/01

Benzene	21.8	1.00	ug/l	20.0	ND	109	80-125	5.66	25	
Chlorobenzene	19.9	1.00	"	20.0	ND	99.5	80-125	2.54	25	
1,1-Dichloroethene	20.6	1.00	"	20.0	ND	103	70-135	6.52	25	
Toluene	21.2	1.00	"	20.0	ND	106	80-125	2.87	25	
Trichloroethene	19.9	1.00	"	20.0	ND	99.5	70-130	5.15	25	
Surr: 4-BFB	21.1		"	20.0		106	75-125			
Surr: 1,2-DCA-d4	18.5		"	20.0		92.5	75-125			
Surr: Dibromofluoromethane	18.4		"	20.0		92.0	75-125			
Surr: Toluene-d8	19.2		"	20.0		96.0	75-125			

Batch 1071758 - EPA 5030B

Blank (1071758-BLK1)

Prepared & Analyzed: 07/26/01

Acetone	ND	25.0	ug/l							
Benzene	ND	1.00	"							
Bromobenzene	ND	1.00	"							
Bromochloromethane	ND	1.00	"							
Bromodichloromethane	ND	1.00	"							
Bromoform	ND	1.00	"							
Bromomethane	ND	5.00	"							
2-Butanone	ND	10.0	"							
n-Butylbenzene	ND	5.00	"							
sec-Butylbenzene	ND	1.00	"							
tert-Butylbenzene	ND	1.00	"							
Carbon disulfide	ND	10.0	"							
Carbon tetrachloride	ND	1.00	"							
Chlorobenzene	ND	1.00	"							
Chloroethane	ND	1.00	"							
Chloroform	ND	1.00	"							
Chloromethane	ND	5.00	"							
2-Chlorotoluene	ND	1.00	"							
4-Chlorotoluene	ND	1.00	"							
1,2-Dibromo-3-chloropropane	ND	5.00	"							
Dibromochloromethane	ND	1.00	"							
1,2-Dibromoethane	ND	1.00	"							
Dibromomethane	ND	1.00	"							

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Environmental Laboratory Network

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Bristol Environmental & Engineering
2000 W. International Airport Rd. #C-1
Anchorage, AK 99502-1116

Project: Amchitka
Project Number: 210901, PO# 21090
Project Manager: Steve Johnson

Amended Report
Issued: 10/08/01 14:17

Volatile Organic Compounds per EPA Method 8260B - Quality Control

North Creek Analytical - Portland

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1071758 - EPA 5030B


Blank (1071758-BLK1)

Prepared & Analyzed: 07/26/01

1,2-Dichlorobenzene	ND	1.00	ug/l
1,3-Dichlorobenzene	ND	1.00	"
1,4-Dichlorobenzene	ND	1.00	"
Dichlorodifluoromethane	ND	5.00	"
1,1-Dichloroethane	ND	1.00	"
1,2-Dichloroethane	ND	1.00	"
1,1-Dichloroethene	ND	1.00	"
cis-1,2-Dichloroethene	ND	1.00	"
trans-1,2-Dichloroethene	ND	1.00	"
1,2-Dichloropropane	ND	1.00	"
1,3-Dichloropropane	ND	1.00	"
2,2-Dichloropropane	ND	1.00	"
1,1-Dichloropropene	ND	1.00	"
cis-1,3-Dichloropropene	ND	1.00	"
trans-1,3-Dichloropropene	ND	1.00	"
Ethylbenzene	ND	1.00	"
Hexachlorobutadiene	ND	2.00	"
2-Hexanone	ND	10.0	"
Isopropylbenzene	ND	2.00	"
p-Isopropyltoluene	ND	2.00	"
4-Methyl-2-pentanone	ND	5.00	"
Methyl tert-butyl ether	ND	1.00	"
Methylene chloride	ND	5.00	"
Naphthalene	ND	2.00	"
n-Propylbenzene	ND	1.00	"
Styrene	ND	1.00	"
1,1,1,2-Tetrachloroethane	ND	1.00	"
1,1,2,2-Tetrachloroethane	ND	1.00	"
Tetrachloroethene	ND	1.00	"
Toluene	ND	1.00	"
1,2,3-Trichlorobenzene	ND	1.00	"
1,2,4-Trichlorobenzene	ND	1.00	"
1,1,1-Trichloroethane	ND	1.00	"
1,1,2-Trichloroethane	ND	1.00	"
Trichloroethene	ND	1.00	"
Trichlorofluoromethane	ND	1.00	"

North Creek Analytical - Portland

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North Creek Analytical, Inc.
Environmental Laboratory Network

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Bristol Environmental & Engineering
 2000 W. International Airport Rd. #C-1
 Anchorage, AK 99502-1116

Project: Amchitka
 Project Number: 210901, PO# 21090
 Project Manager: Steve Johnson

Amended Report
 Issued: 10/08/01 14:17

Volatile Organic Compounds per EPA Method 8260B - Quality Control

North Creek Analytical - Portland

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1071758 - EPA 5030B

Blank (1071758-BLK1)

Prepared & Analyzed: 07/26/01

1,2,3-Trichloropropane	ND	1.00	ug/l							
1,2,4-Trimethylbenzene	ND	1.00	"							
1,3,5-Trimethylbenzene	ND	1.00	"							
Vinyl chloride	ND	1.00	"							
o-Xylene	ND	1.00	"							
m,p-Xylene	ND	2.00	"							
Surr: 4-BFB	20.5		"	20.0		102	75-125			
Surr: 1,2-DCA-d4	20.4		"	20.0		102	75-125			
Surr: Dibromofluoromethane	20.2		"	20.0		101	75-125			
Surr: Toluene-d8	20.3		"	20.0		102	75-125			

LCS (1071758-BS1)

Prepared & Analyzed: 07/26/01

Benzene	19.6	1.00	ug/l	20.0		98.0	80-125			
Chlorobenzene	18.8	1.00	"	20.0		94.0	80-125			
1,1-Dichloroethene	18.0	1.00	"	20.0		90.0	70-135			
Toluene	19.4	1.00	"	20.0		97.0	80-125			
Trichloroethene	19.6	1.00	"	20.0		98.0	70-130			
Surr: 4-BFB	20.5		"	20.0		102	75-125			
Surr: 1,2-DCA-d4	20.0		"	20.0		100	75-125			
Surr: Dibromofluoromethane	19.4		"	20.0		97.0	75-125			
Surr: Toluene-d8	20.4		"	20.0		102	75-125			

Matrix Spike (1071758-MS1)

Source: PIG0570-01

Prepared & Analyzed: 07/26/01

Benzene	20.4	1.00	ug/l	20.0	ND	102	80-125			
Chlorobenzene	18.9	1.00	"	20.0	ND	94.5	80-125			
1,1-Dichloroethene	20.3	1.00	"	20.0	ND	102	70-135			
Toluene	19.1	1.00	"	20.0	ND	95.5	80-125			
Trichloroethene	19.8	1.00	"	20.0	ND	99.0	70-130			
Surr: 4-BFB	19.9		"	20.0		99.5	75-125			
Surr: 1,2-DCA-d4	20.1		"	20.0		100	75-125			
Surr: Dibromofluoromethane	20.5		"	20.0		102	75-125			
Surr: Toluene-d8	20.1		"	20.0		100	75-125			

North Creek Analytical - Portland

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Bristol Environmental & Engineering
2000 W. International Airport Rd. #C-1
Anchorage, AK 99502-1116

Project: Amchitka
Project Number: 210901, PO# 21090
Project Manager: Steve Johnson

Amended Report
Issued: 10/08/01 14:17

Volatile Organic Compounds per EPA Method 8260B - Quality Control

North Creek Analytical - Portland

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1071758 - EPA 5030B

Matrix Spike Dup (1071758-MSD1)		Source: P1G0570-01		Prepared & Analyzed: 07/26/01						
Benzene	21.0	1.00	ug/l	20.0	ND	105	80-125	2.90	25	
Chlorobenzene	18.9	1.00	"	20.0	ND	94.5	80-125	0.00	25	
1,1-Dichloroethene	20.5	1.00	"	20.0	ND	102	70-135	0.980	25	
Toluene	19.6	1.00	"	20.0	ND	98.0	80-125	2.58	25	
Trichloroethene	19.7	1.00	"	20.0	ND	98.5	70-130	0.506	25	
Surr: 4-BFB	20.1		"	20.0		100	75-125			
Surr: 1,2-DCA-d4	19.8		"	20.0		99.0	75-125			
Surr: Dibromofluoromethane	20.1		"	20.0		100	75-125			
Surr: Toluene-d8	20.6		"	20.0		103	75-125			

North Creek Analytical - Portland

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Environmental Laboratory Network

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Bristol Environmental & Engineering
2000 W. International Airport Rd. #C-1
Anchorage, AK 99502-1116

Project: Amchitka
Project Number: 210901, PO# 21090
Project Manager: Steve Johnson

Amended Report
Issued: 10/08/01 14:17

Polynuclear Aromatic Compounds per EPA 8270M-SIM - Quality Control

North Creek Analytical - Portland

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1071339 - EPA 3520/600 Series

Blank (1071339-BLK1)

Prepared: 07/17/01 Analyzed: 07/18/01

Acenaphthene	ND	0.100	ug/l							
Acenaphthylene	ND	0.100	"							
Anthracene	ND	0.100	"							
Benzo (a) anthracene	ND	0.100	"							
Benzo (a) pyrene	ND	0.100	"							
Benzo (b) fluoranthene	ND	0.100	"							
Benzo (ghi) perylene	ND	0.100	"							
Benzo (k) fluoranthene	ND	0.100	"							
Chrysene	ND	0.100	"							
Dibenzo (a,h) anthracene	ND	0.200	"							
Fluoranthene	ND	0.100	"							
Fluorene	ND	0.100	"							
Indeno (1,2,3-cd) pyrene	ND	0.100	"							
Naphthalene	ND	0.100	"							
Phenanthrene	ND	0.100	"							
Pyrene	ND	0.100	"							
Surr: Fluorene-d10	1.99		"	2.50		79.6	25-105			
Surr: Pyrene-d10	2.79		"	2.50		112	30-130			
Surr: Benzo (a) pyrene-d12	2.18		"	2.50		87.2	22-120			

LCS (1071339-BS1)

Prepared: 07/17/01 Analyzed: 07/18/01

Acenaphthene	1.87	0.100	ug/l	2.50		74.8	26-135			
Benzo (a) pyrene	2.09	0.100	"	2.50		83.6	38-137			
Pyrene	2.16	0.100	"	2.50		86.4	33-133			
Surr: Fluorene-d10	1.97		"	2.50		78.8	25-105			
Surr: Pyrene-d10	2.69		"	2.50		108	30-130			
Surr: Benzo (a) pyrene-d12	2.09		"	2.50		83.6	22-120			

North Creek Analytical - Portland

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Environmental Laboratory Network

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Bristol Environmental & Engineering
 2000 W. International Airport Rd. #C-1
 Anchorage, AK 99502-1116

Project: Amchitka
 Project Number: 210901, PO# 21090
 Project Manager: Steve Johnson

Amended Report
 Issued: 10/08/01 14:17

Polynuclear Aromatic Compounds per EPA 8270M-SIM - Quality Control

North Creek Analytical - Portland

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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Batch 1071339 - EPA 3520/600 Series


LCS Dup (1071339-BSD1)

Prepared: 07/17/01 Analyzed: 07/18/01

Acenaphthene	1.95	0.100	ug/l	2.50		78.0	26-135	4.19	60
Benzo (a) pyrene	2.17	0.100	"	2.50		86.8	38-137	3.76	60
Pyrene	2.18	0.100	"	2.50		87.2	33-133	0.922	60
Surr: Fluorene-d10	1.97		"	2.50		78.8	25-105		
Surr: Pyrene-d10	2.67		"	2.50		107	30-130		
Surr: Benzo (a) pyrene-d12	2.14		"	2.50		85.6	22-120		

North Creek Analytical - Portland

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 custody document. This analytical report must be reproduced in its entirety.


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North Creek Analytical, Inc.
 Environmental Laboratory Network

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Bristol Environmental & Engineering
2000 W. International Airport Rd. #C-1
Anchorage, AK 99502-1116

Project: Amchatka
Project Number: 210901, PO# 21090
Project Manager: Steve Johnson

Amended Report
Issued: 10/08/01 14:17

Notes and Definitions

I-02 This sample was analyzed outside of the EPA recommended holding time.

Q-06 Analyses are not controlled on RPD values from sample concentrations less than 5 times the reporting limit.

R-03 The reporting limit for this analyte was raised due to matrix interference.

S-07 Surrogate recovery is out of control limits. QA criteria are met when one surrogate is within control limits.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported


dry Sample results reported on a dry weight basis. MRLs are adjusted if %Solids are less than 50%.

wet Sample results reported on a wet weight basis (as received)

RPD Relative Percent Difference

North Creek Analytical - Portland

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